COPIA-SH

Single Phase Hybrid Inverter

Product Introduction

Copia-SH, a single-phase hybrid inverter. It can connect with Myrtillo battery box to make sure you are using clean energy all the time. Even if the installation space is limited, the design of the split inverter and battery can meet the constraints of different scenarios.

Fancy

Automobile aesthetic design

Friendly

<25dB, no noise pollution
IP65

Flexible

Compatible with various brands of batteries

Integrated

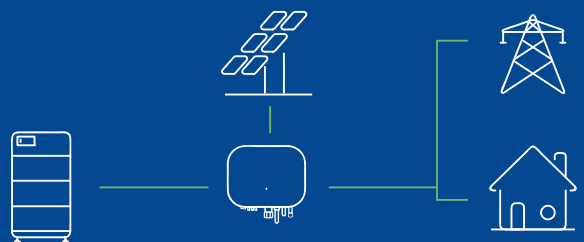
Fanless integrated cooling design

Infinite

Higher charge/discharge efficiency brings more revenue,
Uninterrupted time,
switching time <10ms

Intelligent

Support ECOS EMS, VPP and IOT Remote update and control



- The extra energy generated by PV is charged into battery by Copia-SH.
- The energy from battery can support your household load by Copia-SH.

Copia-SH Series

Technical parameters

Model	WH-SHC362	WH-SHC462	WH-SHC502	WH-SHC602
PV Input				
Absolute max Voltage (d.c.V)	600			
MPPT Voltage Range (d.c.V)	100~550			
Max. DC Input Power (W)	4800	6200	6650	8000
Start-up Voltage (d.c.V)	90			
Rated Operating Voltage (d.c.V)	360			
Max. Input Current (d.c.A)	12.5/12.5			
Max. inverter backfeed current to array (d.c.A)	0			
Isc PV (d.c.A)	18/18			
NO. of MPP Trackers	2			
NO. of Strings per MPP Tracker	1			
Battery	Li-ion			
Battery Voltage Range (d.c.V)	80~500			
Max. Charge/Discharge Current (d.c.A)	25			
AC Input/Output				
Rated output Power (W)	3600	4600	5000	6000
Rated Apparent Power to Grid (VA)	3600	4600	5000	6000
Max. Apparent Power to Grid (VA)	3600	4600	5000	6000
Max. Apparent Power from Grid (VA)	7200	9200	10000	12000
Rated Voltage (a.c.V)	220/230/240			
Rated Frequency (Hz)	50/60			
Rated AC Current to Grid (a.c.A)	16	20	21.7	26.1
Rated AC Current from Grid (a.c.A)	32	40	43.4	52.2
Inrush current (a.c.A)	16 a.c.A (peak), 11.3 us (duration)			
Max. output fault current (a.c.A)	57 (peak), 40 (rms)			
AC output Maximum output overcurrent protection (a.c.A)	40			
AC input power factor	-0.8~+0.8			
AC output power factor	1(-0.8~+0.8 adjustable)			
THDi	<3%			
EPS Output (With Battery)				
Max. Output Power (W)	3600	4600	5000	6000
Rated Apparent Power (VA)	4320	5520	6000	7200
Max. Apparent Power (VA)	4320	5520	6000	7200
Rated Voltage (a.c.V)	220/230/240			
Norminal Frequency (Hz)	50/60 (±0.2%)			
Rated Output Current (a.c.A)	18.8	24	26.1	31.3
Inrush current (a.c.A)	16 a.c.A (peak), 11.3 us (duration)			
Max. output fault current (a.c.A)	57 (peak), 40 (rms)			
EPS output Maximum output overcurrent protection (a.c.A)	40			
Switch time (ms)	<10			
THDv @Linear Load (%)	<2			
Power Factor	-0.8~+0.8			
Efficiency				
PV Max. Efficiency (%)	97.6			
PV Europe Efficiency (%)	97			
PV Max. MPPT Efficiency (%)	99.9			
Battery Charge by PV Max. Efficiency (%)	98			
Battery Discharge Efficiency (%)	96.7			
Protection				
Over/Under voltage protection	Yes			
DC isolation protection	Yes			
DC injection monitoring	Yes			
Residual current detection	Yes			
Anti-islanding protection	Yes			
Over load protection	Yes			
Battery Input reverse polarity protection	Yes			
PV reverse polarity protection	Yes			
Surge protection	Yes			
Over heat protection	Yes			
General Data				
Dimension (W/D/H)(mm)	500*170*425			
Net weight (kg)	19.8			
Operation Temp (°C)	-25~+60			
Relative Humidity (%)	0~95			
Altitude (m)	≤3000			
Ingress Protection	IP65			
Cooling	Natural			
Inverter Topology	Non-isolated			
Over voltage category	III(AC), II(DC)			
Protective class	Class I			
Active anti-islanding method	frequency shift			
Human Interface	LED/APP			
BMS Communication Interface	RS485/CAN			
Meter Communication Interface	RS485			
Noise Emission (dB)	<25			
Standby Power Consumption (W)	<3			
Safety and Approvals				
Safety	IEC62040.1:2019 IEC62109-1&-2			
EMC	EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021			
Certification	AS/NZS 4777.2:2020 VDE-AR-N4105 G98/G99 CEI 0-21			